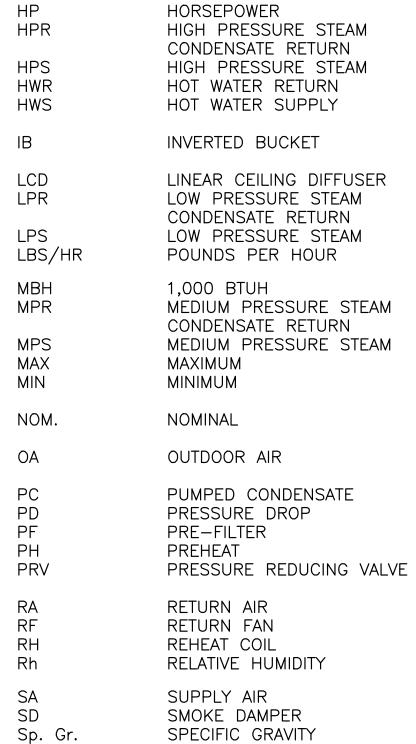
ABBREVIATIONS AIR CONDITIONING UNIT ACCESS DOOR AFTER FILTER AIR FLOW CONTROL VALVE AFM AIR FLOW MEASURING DEVICE AFW AIR FOIL WHEEL AHU AIR HANDLING UNIT ALUMINUM ACCESS PANEL BRITISH THERMAL UNIT PER HOUR CONVERTOR CC CD CF COOLING COIL CONDENSATE DRAIN CENTRIFUGAL FAN CFM CUBIC FEET PER MINUTE CG CEILING GRILLE CHWR CHILLED WATER RETURN CHWS CHILLED WATER SUPPLY CO CLEAN OUT COMP **COMPRESSOR** CONV CONVECTOR CON CONSTRUCTION CP CONDENSATE PUMP CR CEILING REGISTER CW COLD WATER DRY BULB TEMPERATURE Db dΒ DECIBELS DN DEWPOINT TEMPERATURE Dр EΑ EXHAUST AIR ECC ENGINEERING CONTROL CENTER EER EF ENERGY EFFICIENCY RATIO EXHAUST FAN END OF MAIN DRIP (STEAM) EMD EXPANSION TANK **EXISTING** FLEXIBLE CONNECTION FIRE DAMPER FLR F&T FLOAT AND THERMOSTAIC HEATING COIL HP HORSEPOWER HPR HPS HWR HWS LCD LPR



STEAM HUMIDIFIER

STATIC PRESSURE

STEAM

TRANSFER

STATIC PRESSURE SENSOR

UNLESS OTHERWISE NOTED

VARIABLE FREQUENCY DRIVE

WET BULB TEMPERATURE

2-PIPE WATER RETURN

2-PIPE WATER SUPPLY

VARIABLE AIR VOLUME

VOLUME DAMPER

SP

SPS

TRANS

UON

VAV

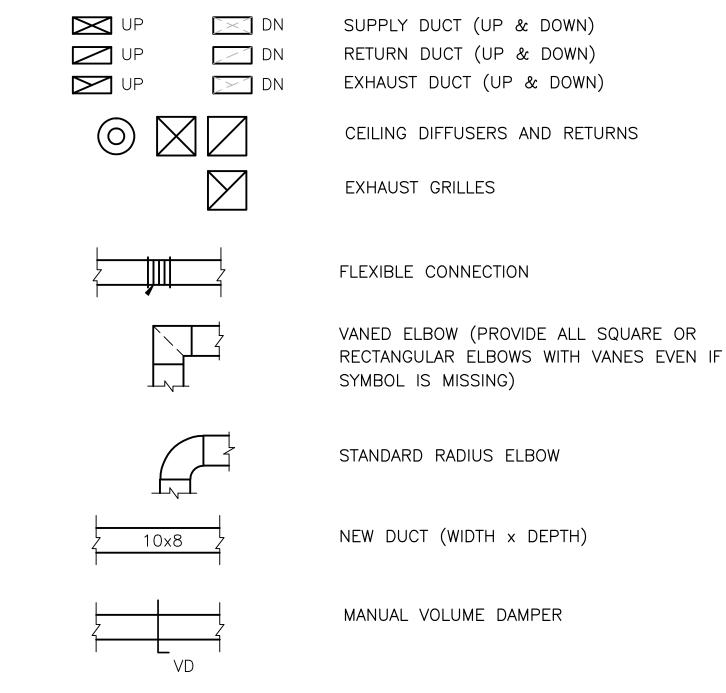
VD

WR

WS

VFD

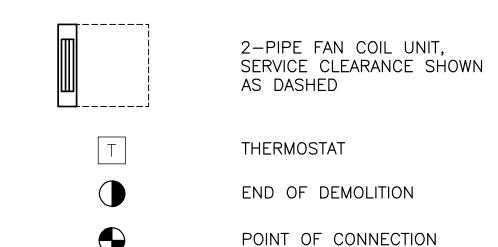
DUCTWORK SYMBOLS



DUCTWORK SYMBOLS

 EXISTING SUPPLY DUCTWORK
 NEW SUPPLY DUCTWORK
 SUPPLY DUCTWORK FOR DEMO
 EXISTING RETURN DUCTWORK
 NEW RETURN DUCTWORK
 RETURN DUCTWORK FOR DEMO
 EXISTING EXHAUST DUCTWORK
 NEW EXHAUST DUCTWORK
 EXHAUST DUCTWORK FOR DEMO

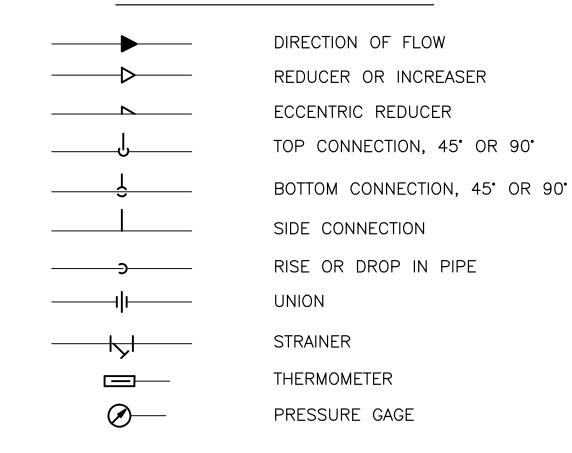
DEVICE SYMBOLS



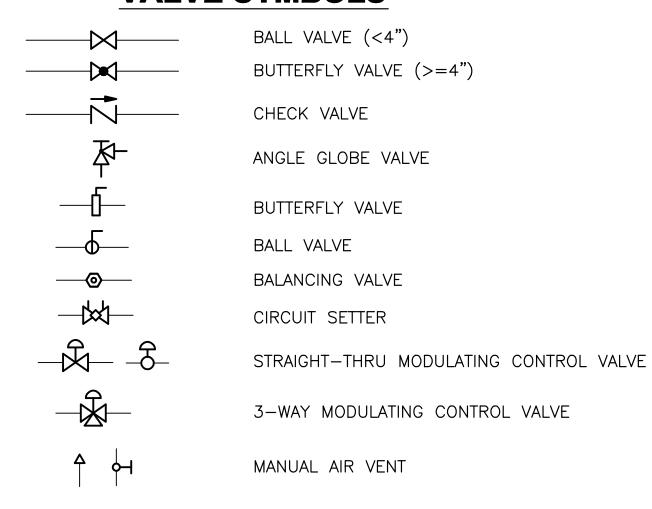
PIPING SYMBOLS

 EXISTING 2-PIPE WATER S&R
 NEW 2-PIPE WATER S&R
 2-PIPE WATER S&R FOR DEMO

GENERAL SYMBOLS



VALVE SYMBOLS



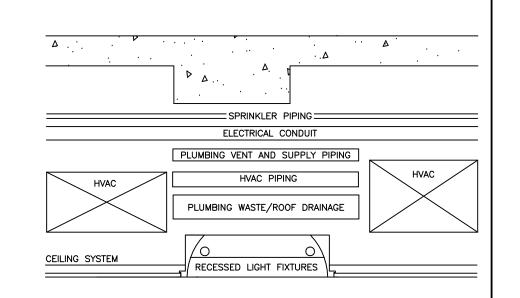
TEST PLUG (PRESSURE/TEMPERATURE)

GENERAL NOTES

- 1. ALL PIPING AND DUCTS IN FINISHED ROOMS OR SPACES SHALL BE CONCEALED IN A FURRED CHASE OR ABOVE THE SUSPENDED CEILING.
- 2. THE FIRST FIGURE OF DUCT SIZE INDICATES DIMENSION OF FACE SHOWN OR INDICATED.
- 3. ACCESS PANELS IN GYP & PLASTER CEILINGS ARE REQUIRED FOR ALL VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. ACCESS PANELS SHALL BE FURNISHED AND INSTALLED UNDER THE ARCHITECTURAL SPECIFICATIONS.
- 4. TOTAL STATIC PRESSURE NOTED IN THE SCHEDULES INCLUDES DUCT SYSTEM, TERMINAL UNITS, FILTERS, COILS, ETC.
- 5. FOR TYPICAL STEAM, WATER AND REFRIGERANT PIPING CONNECTIONS TO EQUIPMENT SEE STANDARD EQUIPMENT DETAILS.
- 6. WATER PIPE CONNECTIONS TO AIR HEATING AND COOLING COILS SHALL BE MADE TO PROVIDE COUNTER FLOW BETWEEN WATER AND AIR.
- 7. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF CEILING DIFFUSERS, REGISTERS, AND GRILLES.
- 8. CONTROLS TO BE INSTALLED AS AN EXTENSION OF THE EXISTING CAMPUS JOHNSON METASYS CONTROL SYSTEM. CONTROL SIGNALS SHALL BE PROCESSED AT THE SUB-SYSTEM LEVEL (DCP) AND STATUS SIGNALS ARE TO BE SENT TO THE ECC. THE ECC SHALL HAVE THE ABILITY TO OVERRIDE SUB-SYSTEM COMMANDS. REFER TO SPECIFICATION SECTION 15902 FOR ADDITIONAL DETAILS.
- 9. REFER TO SPECIFICATION SECTION 095100 'ACOUSTICAL CEILINGS' FOR TAGGING OF VALVES, EQUIPMENT, ETC... ABOVE CEILINGS.
- 10. ALL ABANDONED MECHANICAL EQUIPMENT FOUND WITHIN THE CONSTRUCTION LIMITS IS TO BE REMOVED BY THE CONTRACTOR DURING DEMOLITION.

DUCT PRESSURE CLASS TABLE			
DUCT INVOLVED	POSITIVE (P) OR NEGATIVE (N) PRESSURE	MINIMUM PRESSURE CLASS W.G. IN.	
FROM SMOKE DAMPER TO ROOM OUTLETS	Р	2	
FROM ROOM OUTLETS TO EXHAUST FAN	N	2	

DUCT LEAKAGE CLASSIFICATION AND ALLOWABLE LEAKAGE TABLE SMACNA LEAKAGE CLASS DUCT PRESSURE SEAL APPLICABLE RECTANGULAR ROUND CLASS, W.G. IN SEALING DUCT 1/2", 1", 2" TRAVERSE JOINTS ONLY 24



FULLY SPRINKLERED

FOR CONSTRUCTION Drawing Title Project Number Office of **KEY PLAN:** STAMP: **CONSULTANTS**: ARCHITECT/ENGINEERS: RENOVATE INPATIENT R636A8-10-001 **MECHANICAL** MEDICAL/SURGICAL WARD Construction **COVER SHEET** Building Number N and Facilities 11000 West Park Place A Milwaukee WI 53224 A Tel 414 359-3060 A Fax 414 359-3070 Approved: Project Director Drawing Number ntelligent Designs nspired Results Management Iowa City VA Medical Center NIKA Technologies, Inc. Engineering and Management 11400 Rockville Pike, Ste 505 N. Bethesda, MD 20852 1-H1 Department of Veterans Affairs Consultants p: 301.770.3520 f: 301.770.3521 Dwg. **15** of 44 www.nikatechnologies.com

5